

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/10450

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 B22D17/30 B22D21/00 B22D21/04		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 B22D C22B F27D		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, PAJ, EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 02287 A (GJESTLAND HAAVARD T ; REISTAD THOMAS BERGEM (NO); BERG STEIN ERIK ( ) 21 January 1999 (1999-01-21) page 3, line 3 -page 4, line 5; figure 1	1
A	US 5 205 346 A (KUHN JOHN W ET AL) 27 April 1993 (1993-04-27) abstract; claim 2; figure 1	1
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 02, 31 March 1995 (1995-03-31) & JP 06 328227 A (SINTOKOGIO LTD), 29 November 1994 (1994-11-29) abstract	1
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "A" document member of the same patent family		
Date of the actual completion of the international search 18 November 2003		Date of mailing of the international search report 04/12/2003
Name and mailing address of the ISA European Patent Office, P.B. 5618 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3018		Authorized officer Mailliard, A

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 007, no. 024 (M-189), 29 January 1983 (1983-01-29) & JP 57 177871 A (TOMOYA NOGUCHI), 1 November 1982 (1982-11-01) abstract	1
A	DE 736 766 C (ERICH HERRMANN & CO K G;METALLGESELLSCHAFT AG) 28 June 1943 (1943-06-28) claim 1; figures 1-3	1
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 062 (M-1211), 17 February 1992 (1992-02-17) & JP 03 258448 A (TOSHIBA MACH CO LTD), 18 November 1991 (1991-11-18) abstract	1
A	FR 2 809 643 A (BROCHOT SA) 7 December 2001 (2001-12-07) claims 1-11; figures 1-3	1

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Information on patent family members

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